

**GRADUATE MAJOR CHANGE BULLETIN NO. 3**

**Fall 2014**

**Faculty Senate Approved November 20, 2014**

The courses listed below reflect the graduate major curricular changes approved by the Catalog Subcommittee and the Graduate Studies Committee since approval of the last Graduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Proposed and Current, respectively. The column to the far right indicates the date each change becomes effective.

<b>Subject</b>	<b>Course Number</b>	<b>New Revise Drop</b>	<b>Current</b>	<b>Proposed</b>	<b>Effective Date</b>
<b>E M</b>	<b>501</b>	<b>Revise</b>	<b>Management of Organizations 3</b> Exploration of issues related to individual behavior in work organizations, including motivation, leadership, team-building, and team management skills.	<b>Management of Organizations 3</b> Exploration of issues related to individual behavior in work organizations, including motivation, leadership, team-building, and team management skills. <u>Credit not granted for both E M 401 and 501. Typically offered: Spring.</u>	<b>8-15</b>
<b>E M</b>	<b>503</b>	<b>Revise</b>	<b>Managing Variability Using Statistics 3</b> Managing variability and uncertainty using statistics for engineering decision-making involving risk.	<b>Managing Variability Using Statistics 3</b> Managing variability and uncertainty using statistics for engineering decision-making involving risk. <u>Credit not granted for both E M 403 and 503. Typically offered: Spring.</u>	<b>8-15</b>
<b>E M</b>	<b>520</b>	<b>Revise</b>	<b>Contract Project Management 3</b> Contract project bids, proposals, contracts, project delivery/organization; estimating, scheduling, resource loading, project monitoring and controls, safety and quality.	<b>Contract Project Management 3</b> Contract project bids, proposals, contracts, project delivery/organization; estimating, scheduling, resource loading, project monitoring and controls, safety and quality. <u>Credit not granted for both E M 420 and 520. Typically offered: Spring.</u>	<b>8-15</b>
<b>E M</b>	<b>522</b>	<b>Revise</b>	<b>Leadership, Supervision, and Management 3</b> Strategies of supervision with practical	<b>Leadership, Supervision, and Management 3</b> Strategies of supervision with practical	<b>8-15</b>

			application techniques presented to create individual and organizational motivation. Offered at 400 and 500 level. Credit not granted for both E M 422 and 522.	application techniques presented to create individual and organizational motivation. <u>Credit not granted for both E M 422 and 522. Typically offered: Fall.</u>	
<b>E M</b>	<b>538</b>	<b>Revise</b>	<b>Lean Agility 3</b> Integration of the best of Lean, Six Sigma, and Theory of Constraints to accelerate the continuous improvement process.	<b>Lean Agility 3</b> Integration of the best of Lean, Six Sigma, and Theory of Constraints to accelerate the continuous improvement process. <u>Credit not granted for both E M 438 and 538. Typically offered: Fall.</u>	<b>8-15</b>
<b>E M</b>	<b>570</b>	<b>Revise</b>	<b>Six Sigma Quality Management 3</b> Quality management programs, quality assurance, statistical quality control concepts and product design reliability.	<b>Six Sigma Quality Management 3</b> Quality management programs, quality assurance, statistical quality control concepts, and product design reliability. <u>Credit not granted for both E M 470 and 570. Typically offered: Fall.</u>	<b>8-15</b>
<b>PHARMSCI</b>	<b>520</b>	<b>New</b>	--N/A--	<b>Foundations of Molecular Regulation 3</b> Principles of molecular biology, genetics, and biochemistry used to develop therapeutic approaches to the treatment and prevention of human disease.	<b>1-15</b>
<b>TCH LRN</b>	<b>582</b>	<b>New</b>	--N/A--	<b>Scholarly Writing 3</b> Interdisciplinary; supports students to write publication-quality manuscripts.	<b>1-15</b>
<b>TCH LRN</b>	<b>591</b>	<b>Revise</b>	<b>Research Internship in Math/Science Education</b> <del>3</del> May be repeated for credit; cumulative maximum 6 hours. Provides opportunities for students to work closely with an accomplished researcher to observe, learn, and practice research methods.	<b>Research Internship in Math/Science Education</b> <u>V 2-3</u> May be repeated for credit; cumulative maximum 6 hours. Provides opportunities for students to work closely with an accomplished researcher to observe, learn, and practice	<b>1-15</b>

				research methods.	
<b>TCH LRN</b>	<b>598</b>	<b>Revise</b>	<b>Research Seminar in Mathematics and Science Education 1</b> May be repeated for credit; cumulative maximum-4 hours. Through targeted readings and discussion, students will develop knowledge base proficiencies related to areas of mathematics/science education.	<b>Research Seminar in Mathematics and Science Education 1</b> May be repeated for credit; cumulative maximum <u>6</u> hours. Through targeted readings and discussion, students will develop knowledge base proficiencies related to areas of mathematics/science education.	<b>1-15</b>